AMENDMENTS TO THE CLAIMS

- 1. (Original) A rotating electrical machine comprising:
 - a housing;
 - a shaft mounted rotatably within the housing;
 - a rotor fixed to the shaft and providing a magnetic field;
 - a stator positioned about the rotor within the housing and having a winding;
- a switch mounted with the housing and having a first position for allowing current in one direction through the winding and a second position for allowing current in an opposite direction through the winding;
- a mechanical activator movable by the shaft and acting on the switch so as to move it between the first and second positions when the winding is so aligned that current-inducing effects of the magnetic field on the winding are at or near a minimum.
- 2. (Original) A rotating electrical machine comprising:
 - a housing;
 - a shaft mounted rotatably within the housing;
- a rotor fixed to the shaft and having a plurality of poles made of ferromagnetic material;
 - a stator positioned about the rotor within the housing and having a winding;
- a switch mounted within the housing and having a first position for allowing current in one direction through the winding and a second position for allowing current in an opposite direction through the winding;
- a mechanical activator movable by the shaft and acting on the switch so as to move it between the first and second positions.
- 3. (Currently Amended) The electrical machine of elaims 1 or 2 claim 1 wherein the switch has a third position for not allowing current through the winding, and the mechanical activator moves the switch to the third position between the first and second positions.
- 4. (Currently Amended) The electrical machine of any one of claims 1 to 3 claim 3 wherein the mechanical activator comprises a cam mounted about the shaft and a cam follower communicating with the cam and with the switch.
- 5. (Original) The electrical machine of claim 4 wherein the cam has four portions for moving the switch to the first position for $1/6^{th}$ of a cycle and then to the third position for

 $1/3^{rd}$ of the cycle, and then to the second position for $1/6^{th}$ of the cycle, and then to the third position for $1/3^{rd}$ of the cycle.

- 6. (Currently Amended) The electrical machine of any one of claims 1 to 3 claim 3 wherein the mechanical activator comprises a crank and a linkage for moving the switch to the first position for 1/6th of a cycle and then to the third position for 1/3rd of the cycle, and then to the second position for 1/6th of the cycle, and then to the third position for 1/3rd of the cycle.
- 7. (Currently Amended) The electrical machine of $\frac{1}{2}$ and $\frac{1}{2}$ including three switches positioned 120 angular degrees apart, and wherein the mechanical activator acts on all the switches to move them in a sequence.
- 8. (Currently Amended) The electrical machine of any preceding-claim $\underline{1}$ wherein the electrical machine is a permanent magnet brushless DC electric motor.
- 9. (Currently Amended) The electrical machine of any preceding claim 1 wherein the electrical machine is a DC Switched reluctance motor.

10. (Canceled)

Please add the following claims.

- 11. (New) The electrical machine of claim 2 wherein the switch has a third position for not allowing current through the winding, and the mechanical activator moves the switch to the third position between the first and second positions.
- 12. (New) The electrical machine of claim 1 wherein the mechanical activator comprises a cam mounted about the shaft and a cam follower communicating with the cam and with the switch.
- 13. (New) The electrical machine of claim 2 wherein the mechanical activator comprises a cam mounted about the shaft and a cam follower communicating with the cam and with the switch.

- 14. (New) The electrical machine of claim 2 including three switches positioned 120 angular degrees apart, and wherein the mechanical activator acts on all the switches to move them in a sequence.
- 15. (New) The electrical machine of claim 3 including three switches positioned 120 angular degrees apart, and wherein the mechanical activator acts on all the switches to move them in a sequence.
- 16. (New) The electrical machine of claim 2 wherein the electrical machine is a permanent magnet brushless DC electric motor.
- 17. (New) The electrical machine of claim 3 wherein the electrical machine is a permanent magnet brushless DC electric motor.
- 18. (New) The electrical machine of claim 2 wherein the electrical machine is a DC Switched reluctance motor.
 - 19. (New) The electrical machine of claim 3 wherein the electrical machine is a DC Switched reluctance motor